BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Developments of Burial Ground in Ward No 6 Byatarayanapura Sub Division

								Est Cost:	500000.00
Sl. No	Description	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (Page no -5, item no - 2.4) 2.3								
	Crematorium	Cum							3600.67
	Foundation		1	15.08	0.90	1.30	17.64		
	189 + 15.12 = 204.12						**17.64**	305.64	**5393.00**
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No. 12/I.No. 4.2 of CSR 2016-2017)								
	Crematorium	Cum							
	Foundation		1	15.08	0.90	0.15	2.04		
	For Flooring		1	5.00	3.60	0.15	2.70		
	For Sarrounding		1	6.50	0.75	0.15	0.73		
			2	3.00	0.75	0.15	0.68		66159.11
	Front		1	8.00	5.00	0.15	6.00		
	5046 + 403.68 = 5449.68						**12.14**	5449.68	**66170.29**
3	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per Specification. Specification No. KBS 4.6.2 (P.No.16, I.No.4.30 of PW,P&IWTD S.R 2016-17)								
	Crematorium	Sqm							
	Top Slab		1	5.00	3.60		18.00		
	384 + 30.72 = 414.72						**18.00**	414.72	**7464.96**
4	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles, and beams retaining walls, return walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6. (P. No. 14/ I.No. 4.13 of CSR 2016-17)								
	Ground floor	Cum							
	Crematorium								

Sl. No	Description	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	Lintel		1	15.08	0.23	0.30	1.04		
	Slab		1	5.00	3.60	0.20	3.60		
	For Flooring		1	5.00	3.60	0.10	1.80		
	For Sarrounding		1	6.50	0.75	0.10	0.49		
			2	3.00	0.75	0.10	0.45		
	Front		1	8.00	5.00	0.10	4.00		
							11.38	6650.64	**75671.11**
	61587 + 492.64								75684.28
5	KSRB 4.9.2 : Providing T.M .T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (P.No.17, I.No.4.46.2 of PW,P&IWTD S.R 2016-17)								
	Ground Floor	Tonne							
	Slab 120kg/cum		120		3.60		432.00		
	Lintel 80kgcum		80		1.04		83.24		
							515.24		
							0.52	60534.00	**31189.64**
	56050 + 4484 =								31477.68
6	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13(P.No.23, I.No.5.6 of PW,P&IWTD S.R 2016-17)								
	Foundation	Cum	1	15.08	0.60	0.50	4.52		
			1	15.08	0.45	0.50	3.39		
							7.92	4521.96	**35800.36**
	4187 + 334.96 = 4521.96								35813.92
7	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13(P.No.23, I.No.5.9 of PW,P&IWTD S.R 2016-17)								
	Foundation	Cum	1	15.08	0.45	0.45	3.05		
							3.05	5405.40	**16506.47**
	5005 + 400.4 =								16486.47
8	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2016-17)								
	Foundation	Cum	1	15.08	0.23	0.15	0.52		
							0.52	5876.28	**3057.19**
	5441 + 435.28 = 5876.28								3055.66
9	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto SO m. and lift upto 1.S m. including cost of all labour complete as per specifications. specification. No. KBS(Page No : 6 Item No 2.10)								
	Crematorium	Cum	1	15.08	0.90	1.30	17.64		
			1	6.00	5.00	0.30	9.00		
							26.64	137.16	**3654.44**
	127 + 10.16 = 137.16								3653.94

Sl. No	Description	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
10	KSRB 14.7-1: Providing and laying flooring with M15 cement concrete 40 mm thick using broken granite 20mm and down size laid to line and level in one layer and finish with a floating coat of neat cement , including cost of materials, labour, curing, complete as per specifications. Specification No. KBS 14.3.(P.No.101, I.No.14.8 of PW,P&IWTD S.R 2016-17)								
	Crematorium	Sqm	1	5.00	3.00		15.00		
							15.00	348.84	**5232.60**
	323 + 25.84 = 348.84								
11	KSRB 6-1.3 : Providing and constructing burnt brick masonry for basement and superstructure with approved quality of non-modular bricks of standard size of class designation 3.5Newton per sqmm with cement mortar1:6 including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2(P.No.27, I.No.6.3 of PW,P&IWTD S.R 2016-17)								
	Crematorium	Cum	1	13.00	0.23	3.00	8.97		
	Steps		2	2.50	0.69	0.15	0.52		
							9.49	6770.52	**64235.31**
	6258.87 + 501.64 =								64252.23
12	KSRB15-3.12 :Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.No.113, I.No.15.20 of PW,P&IWTD S.R 2016-17)								
	Crematorium	Sqm							
	Outside Plastering		1	15.08		3.00	45.24		
							45.24	224.64	**10162.71**
	208 + 16.64 = 224.64.								
13	KSRB 15.3.1Providing 12mm thick cement plaster in single coat with cement mortar 1 :4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.No.112, I.No.15.10 of PW,P&IWTD S.R 2016-17)								
	Crematorium	Sqm							
	Internal Plastering		1	15.08		3.00	45.24		
							45.24	183.60	**8306.06**
	165 + 13.2 = 178.2							178.2	8061.76
14	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1 :3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.No.113, I.No.15.22 of PW,P&IWTD S.R 2016-17)								
	Crematorium	Sqm							
	Ceiling Plastering		1	5.00	3.60		18.00		
							18.00	183.60	**3304.80**
	178 + 14.24 = 192.24							192.24	3460.32
15	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. (P.No. 125, I.No. 15.106 of SR 2016-17).								
	Consider internal plastering quantity	Sqm					45.24		
							45.24	60.48	**2736.12**
	56 + 4.48 = 60.48								

Sl. No	Description	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
16	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. (P.No.117, I.No.15.53.2 of PW,P&IWTD S.R 2016-17)								
	External Walls	Sqm							
	Crematorium								
	Same as Quantity of External Plastering						45.24	90.72	**4104.17**
	84+6.72 =								
17	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications. (P.No.116, I.No.15.49.1 of PW, P&IWTD SR 2016-17)								
	Inside Painting	Sqm							
	Crematorium						45.24		
	71+5.68 = 76.68						**45.24**	76.68	**3469.00**
18	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications. (P.No.116, I.No.15.49.2 of PW, P&IWTD SR 2016-17)								
	Ceiling Painting	Sqm							
	Same as quantity of ceiling Pastering						18.00		
							18.00	82.08	**1477.44**
19	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locI<ing arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1 000 litre capacity) Specification No.KBS 13.22 (P.No.94, I.No.13.78 of PW, P&IWTD S.R 2016-17)								
	Over Head Tanks	Cum							
			2	--	--	--	2.00		
	8467+677.36 = 9144.36						**2.00**	9144.36	**18288.72**
20	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.3, PWD SR 16-17)								17084.84
		Cum						204.12	
			1	155.00	0.60	0.90	83.70		
							83.70	223.66	**18720.34**
	189+15.12 =								
21	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO- 13.73.2, PWD SR 16-17)								

Sl. No	Description	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
		mtrs						375-84	
			1	155.00			155.00		
	348+27-84 =						**155.00**	368.88	57176.40
22	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 16-17)								58255.2
		cum						82.08	4872.26
			1	155.00	0.60	0.90	83.70		
	76+6.08 =						**83.70**	59.36	4968.43
								Total Construction Cost	447089.57
23				444853.46				**For 10% KRIDL Charges**	44708.96
24				441185.34				**For 1% Labour Cess**	4470.90
				444.85				**Sub Total**	496269.42
25								**Miscellaneous and rounding off**	3730.58
								Total	500000.00

489783.65

10216.35

Certificate.

1 The workspot was inspected and work is found to be necessary.
2 The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
4 The provisions made in the estimate are necessary and essential.

Assistant Engineer

Assistant Executive Engineer

Executive Engineer
Byatarayanapura Division
Yalahanka Zone, B.B.M.P.
Bangalore

ADMINISTRATIVE APPROVAL

Accorded For Rs. Five lakhs only

Head of A/c. P-3291

Div. Ref. No. 20 Date. 07/06/18

AE 7/06

EE(BTP) 7/06

TECHNICAL SANCTION

Accorded For Rs. Five lakhs only

Head of A/c. P-3291

Div. Ref. No. 23 Date. 07/06/18

AE 07/06

EE(BTP) 7/06